

CLAIMS

1. A system of pneumatic displacement of a cable (1) stretched in a loop between at least two pulleys (2, 3), characterized in that it includes:

at least one "artificial muscle" (5; 11, 12) inserted
5 on a portion of the loop, the length of this artificial muscle varying according to whether it is or not under pressure,

a means for putting or not the artificial muscle under pressure, and

10 { means for alternately blocking two of said pulleys in at least one rotation direction.

2. The system of claim 1, characterized in that it includes a single artificial muscle (5) arranged on a branch of the loop and a resilient cable.

3. The system of claim 2, characterized in that it
15 includes several artificial muscles in series arranged on the same branch of the loop.

4. The system of claim 1, characterized in that it includes at least two artificial muscles (11, 12) respectively located on either side of a pulley, and means for putting under
20 pressure in a complementary manner said artificial muscles at the rate at which the pulleys are blocked and unblocked.

5. The system of claim 4, characterized in that the cable is resilient.

6. The system of claim 1, characterized in that a
25 device to be moved is directly linked to the cable.

7. The system of claim 1, characterized in that a device to be moved is linked to the cable via a pulley transmission system.

8. The system of any of claims 1 to 7,
30 characterized in that at least one of the pulleys is linked to a fixed point via a resilient means.

As an example of application to the medical field, one or several systems according to the present invention may be used to displace and position a diagnosis device or a therapeutic device on the human body, the cable link providing
5 for this type of application the advantage of a great flexibility of implementation.